

CLIMATOLOGICAL DATA FOR JAMAICA, W. I.

Through the kindness of Mr. Maxwell Hall, of Montego Bay, Jamaica, the meteorological service of that colony communicates an abstract of the very interesting climatological records of that highly important West Indian service. The climatological summary furnished by Mr. Hall, through his assistant, Mr. Robert Johnstone, of the Meteorological Office, is reproduced in the following table. For descriptive details of the stations and instruments see Vol. XXV, pages 308 and 356.

Montego Bay, where Mr. Maxwell Hall resides, is between 4 and 5 miles west, and also the same distance north of Kempshot Observatory. The location of the latter is N. 18° 24' 50", W. 77° 52' 22". Stony Hill Reformatory is about 8 miles north of Kingston and within a mile to the west. Hope Gardens is between 3 and 4 miles to the north of Kingston, and about the same distance to the east. From these measurements the latitudes and longitudes given in the following table have been deduced:

Climatological data for Jamaica, W. I.
MARCH, 1898.

	Morant Point Lighthouse.	Negril Point Lighthouse.	Kingston.	Montego Bay.	Castleton Gardens.	Hope Gardens.	Stony Hill Reformatory.	Hill Gardens (Ch. Planet.)
Latitude.....	17° 56'	18° 16'	17° 58'	18° 30'	18° 12'	18° 02'	18° 06'	18° 05'
Longitude.....	76° 10'	78° 23'	76° 48'	77° 57'	76° 50'	76° 46'	76° 49'	76° 39'
Elevation (feet).....	8	33	50	160	580	600	1,400	4,907
Mean barometer { 7 a. m.	29.947	29.964	29.962	29.961	.....	.....	.....	.....
{ 3 p. m.	29.912	29.900	29.892	29.896	.....	.....	.....	.....
Mean temperature { 7 a. m.	73.6	69.7	70.3	66.6	67.1	67.0	55.7	.....
{ 3 p. m.	82.8	83.7	80.7	79.6	82.6	77.6	63.4	.....
Mean of maxima.....	86.3	85.7	82.4	82.4	86.0	82.1	67.1	.....
Mean of minima.....	69.0	67.4	67.2	63.6	62.3	63.1	52.8	.....
Highest maximum.....	90	89.6	87.0	87	88	85	71	.....
Lowest minimum.....	64	64.0	62.9	56	59	60	56	.....
Mean dew-point { 7 a. m.	68.1	63.5	65.1	64.2	61.7	62.5	51.4	.....
{ 3 p. m.	70.7	66.0	64.6	70.0	67.0	74.7	57.4	.....
Mean relative humidity { 7 a. m.	88	81	84	89	84	86	85	.....
{ 3 p. m.	67	56	58	70	58	91	80	.....
Monthly rainfall (inches)	0.23	0.09	1.31	0.56	2.37	0.66	2.60	2.08
Average daily wind movement.....	261.0	41.7	110.3	.....	.....	.....	61.4	.....
Average wind direction { 7 a. m.	nne.	n. by e.	n.	ene.	.....	.....	e.	.....
{ 3 p. m.	*	var.	se. by s	ne.	.....	.....	e.	.....
Average hourly velocity { 7 a. m.	11	10.6	1.5	2.6	.....	.....	.....	.....
{ 3 p. m.	12	16.5	4.2	9.6	.....	.....	.....	.....
Average cloudiness (tenths):								
{ Lower clouds....	2.5	1.7	0.6	0.7	.....	.....	.....	.....
{ Middle clouds....	1.8	1.2	0.7	1.4	.....	.....	.....	.....
{ Upper clouds....	0.8	0.3	0.6	0.7
{ Lower clouds....	2.6	2.8	0.7	0.0
{ Middle clouds....	1.5	2.2	1.3	2.2
{ Upper clouds....	0.7	0.7	2.1	0.6

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APRIL, 1898.

	Morant Point Lighthouse.	Negril Point Lighthouse.	Kingston.	Montego Bay.	Castleton Gardens.	Hope Gardens.	Stony Hill Reformatory.	Hill Gardens (Ch. Planet.)
Mean barometer { 7 a. m.	29.976	29.975	29.987	29.975	.....	.....	.....	.....
{ 3 p. m.	29.925	29.930	29.952	29.916	.....	.....	.....	.....
Mean temperature { 7 a. m.	76.8	72.9	72.5	69.1	70.7	68.7	59.1	.....
{ 3 p. m.	81.2	82.7	83.0	82.2	82.8	78.3	64.1	.....
Mean of maxima.....	84.4	85.9	85.5	86.4	82.9	83.4	67.2	.....
Mean of minima.....	71.2	69.7	68.4	63.2	64.0	64.6	54.8	.....
Highest maximum.....	88	88.9	90.7	91	91	87	72	.....
Lowest minimum.....	68	67.3	64.3	58	61	61	50	.....
Mean dew-point { 7 a. m.	72.4	66.0	67.9	63.7	62.7	65.5	54.5	.....
{ 3 p. m.	73.8	68.5	69.3	77.2	68.1	74.1	59.3	.....
Mean relative humidity { 7 a. m.	86	79	85	89	75	90	83	.....
{ 3 p. m.	79	62	65	81	60	87	84	.....
Monthly rainfall (inches)	1.96	3.84	0.17	1.23	7.47	1.07	5.32	4.25
Average daily wind movement.....	205.9	49.5	71.3	.....	.....	.....	18.0	.....
Average wind direction { 7 a. m.	*	n.	ene.	var.	.....	.....	e.	.....
{ 3 p. m.	4.7	6.3	0.9	1.7	.....	.....	se.	.....
Average hourly velocity { 7 a. m.	5.9	9.3	6.0	6.9	.....	.....	se.	.....
Average cloudiness (tenths):								
{ Lower clouds....	3.0	1.2	0.7	0.4	.....	.....	.....	.....
{ Middle clouds....	1.6	2.2	0.9	1.1	.....	.....	.....	.....
{ Upper clouds....	0.9	2.3	2.0	0.8
{ Lower clouds....	2.8	5.0	3.2	0.4
{ Middle clouds....	1.8	3.2	1.2	5.3
{ Upper clouds....	0.9	0.5	3.2	0.0

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Climatological data for Jamaica—Continued.

MAY, 1898.

	Morant Point Lighthouse.	Negril Point Lighthouse.	Kingston.	Montego Bay.	Castleton Gardens.	Hope Gardens.	Stony Hill Reformatory.	Hill Gardens (Ch. Planet.)
Mean barometer { 7 a. m.	29.914	29.910	29.917	29.900	29.900	29.900	29.900	29.900
{ 3 p. m.	29.867	29.873	29.867	29.852	29.852	29.852	29.852	29.852
Mean temperature { 7 a. m.	78.2	77.1	75.4	73.1	74.2	71.7	61.4	61.4
{ 3 p. m.	83.1	83.6	83.0	81.6	82.0	77.0	65.0	65.0
Mean of maxima.....	86.1	86.0	85.8	83.8	86.6	82.6	68.2	68.2
Mean of minima.....	73.0	72.4	70.7	66.3	67.9	66.8	57.5	57.5
Highest maximum.....	88.8	89.1	89.9	90	93	87	72	72
Lowest minimum.....	67.9	69.2	65.9	63	59	65	55	55
Mean dew-point { 7 a. m.	71.7	70.7	70.8	69.4	69.0	69.3	57.0	57.0
{ 3 p. m.	73.0	71.8	73.1	73.8	71.4	73.6	62.0	62.0
Mean relative humidity { 7 a. m.	81	81	86	84	92	80	85	85
{ 3 p. m.	72	69	72	78	69	89	85	85
Monthly rainfall (inches)	15.93	10.39	9.66	13.56	23.60	15.74	21.21	44.31
Average daily wind movement.....	242.3	43.4	55.1	.....	.....	.....	23.5	.....
Average wind direction { 7 a. m.	ene.	n.	ne.	.....	.....	.....	e.	.....
{ 3 p. m.	*	var.	se.	n.	.....	.....	se.	.....
Average hourly velocity { 7 a. m.	5.2	9.5	1.0	2.2	.....	.....	.....	.....
{ 3 p. m.	7.2	13.7	5.3	5.4	.....	.....	.....	.....
Average cloudiness (tenths):								
{ Lower clouds....	3.5	1.7	0.9	1.2	.....	.....	.....	.....
{ Middle clouds....	1.9	2.2	0.8	0.1	.....	.....	.....	.....
{ Upper clouds....	1.1	2.5	2.2	4.4
{ Lower clouds....	3.7	3.5	3.2	1.1
{ Middle clouds....	1.6	4.2	1.6	5.7
{ Upper clouds....	0.9	1.0	1.9	1.2

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MEXICAN CLIMATOLOGICAL DATA.

Through the kind cooperation of Señor Mariano Bárcena, Director, and Señor José Zendesas, vice-director, of the Central Meteorológico-Magnetic Observatory, the monthly summaries of Mexican data are now communicated in manuscript, in advance of their publication in the *Boletín Mensual*; an abstract translated into English measures is here given in continuation of the similar tables published in the MONTHLY WEATHER REVIEW since 1896. The barometric means have not been reduced to standard gravity, but this correction will be given at some future date when the pressures are published on our Chart IV.

Mexican data for May, 1898.

Stations.	Altitude.	Mean barometer.	Temperature.			Relative humidity.	Precipitation.	Prevailing direction.
			Max.	Min.	Mean.			
Durango (Seminario)	6,243	24.00	46.4	72.1	24	0.65	wsw.	w.
Leon (Guanajuato)	5,934	92.7	52.9	73.6	37	1.08	sw.	ne. w.
Magdalena (Sonora)	2,618	29.80	83.8	66.9	75.9	80	0.06	n.
Mazatlán	25	29.86	101.3	65.8	83.3	63	2.67	sw.
Merida (Yucatan)	50	29.86	84.0	50.0	66.8	47	0.69	sw.
Mexico (Obs. Cent.)	7,472	23.04	87.8	53.6	70.5	51	0.85	nw.
Morelia (Seminario)	6,401	24.94	87.8	53.6	70.5	51	0.85	nw.
Oaxaca	5,164	25.03	94.1	51.1	75.6	54	1.18	s.
Puebla (Col. Cat.)	7,112	23.92	83.5	41.2	67.1	59	3.19	e.
San Luis Potosí	6,202	24.08	93.4	53.4	73.0	48	0.44	w.
Toluca	6,612	21.98	75.0	40.1	50.7	56	1.07	sw.
Tuxtla G. (Chiapas)	1,864	26.07	100.2	64.4	75.7	61	3.16	nw.
Tuxpan (Vera Cruz)	30.17	98.6	64.9	88.6	77	1.81	e.	s.
Zapotlán (Seminario)	5,078	93.0	55.2	76.5	41	0.14	sse.	w.
Zacatecas	8,015	22.47	86.0	48.4	66.4	37	0.29	sw.

OBSERVATIONS AT RIVAS, NICARAGUA.

The records contributed for many years by Dr. Earl Flint, at Rivas, Nicaragua, include barometric readings. His present station is at 11° 26' N., 85° 47' W. The observations at 7:17 a. m., local time are simultaneous with Greenwich 1 p. m. The altitude of his barometer is 36 meters above sea level, but until the barometer has been compared with a standard it seems hardly necessary to publish the daily readings. The wind force is recorded on the Beaufort scale, 0-12. When cloudiness is less than $\frac{1}{10}$, the letter "F," or "Few," is recorded.